

# ***Hisense***

KFR-2601GW/BPE

KFR-2801GW/BPE

SPLIT TYPE AIR CONDITIONER

## INSTRUCTION MANUAL

**Hisense Corporation**

# Features

This air conditioner provides with cooling, heating, and drying functions. Details of the functions are below; refer to these descriptions when using the air conditioner.

- **Compact Size**

This model is smaller than its predecessors and yet offers the same capabilities.

- **Microprocessor Controlled Operation**

The interior compartment of the remote control unit contains several features to facilitate automatic operation, clearly displayed for easy use.

- **Simple One-touch Wireless Remote Control**

The remote control unit has several features to facilitate automatic operation.

- **12-Hour ON or OFF Timer**

This timer can be set to automatically turn the unit on or off at any time within a 12-hour period.

- **1-Hour OFF Timer**

This timer can be set to automatically turn off the unit after one hour.

- **Night Setback**

Pressing this SLEEP button changes the setting of the room temperature thermostat, allowing you to set the temperature at whatever level that you feel comfortable.

- **Automatic and 3-step Fan Speed**

Auto/High/Medium/Low

- **Intelligence Frequency Conversation**

With environment temperature's change, the microcomputer controls the output energy and perform the quick, precise controlling of the room's temperature.

- **Air Sweep Control**

This function moves a flap up and down in the air outlet, directing air in a sweeping motion around the room and providing comfort in every corner.

- **Automatic Switching between Cooling and Heating**

This unit automatically switches between cooling operation and heating operation according to the difference between the room temperature and the set temperature.

- **Hot start Heating System**

Right from the start, the air is warm and comfortable. This system prevents any cold blasts at the beginning while the heat pump warming up, or even defrosting.

- **Automatic Restart Function for Power Failure**

Even when power failure occurs, preset programmed operation can be reactivated once power resumes.

- **Anti-Mold Filter**

This unit is equipped with an anti-mold filter that inhibits the growth of mold and bacteria.

- **High Power Running**

Run with strong power and make you feel comfortable quickly.

# Contents

Pardon not to inform you if the contents of the manual changes.

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## Alert Symbols



**WARNING**

**The symbol refers to a hazard or an unsafe practice which can result in severe personal injury or death.**



**CAUTION**

**The symbol refers to a hazard or an unsafe practice which can result in personal injury or product damage.**

# Caution Statements



## WARNING

1. We recommend that this air conditioner be installed properly by qualified installation technicians in accordance with the installation instructions provided with the unit.

2. Before installation, check if the voltage of the electric supply in your home or office is the same as the voltage shown on the nameplate.



## WARNING

3. Do not install the air conditioner where there are fumes or flammable gases, or in an extremely humid space such as a greenhouse.

4. Do not install the air conditioner where excessively high heat-generating objects are placed.

## Avoid:

To protect the air conditioner from heavy corrosion, avoid installing the outdoor unit where salty sea water can splash directly onto it or in sulphurous air near a spa.

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1. All wiring must conform to the local electrical codes.

2. Each unit must be properly grounded.

3. Wiring must be done by a qualified electrician.

4. Consider the capacity of the electric current of your electrical kilowatt-hour meter wires and socket before installation.

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1. Read this manual carefully before using this air conditioner. If you still have any difficulties or problems, consult your dealer for help.

2. The air conditioner is designed to give you comfortable room conditions. Use this only for its intended purpose as described in this instruction manual.



## WARNING

3. Never use store gasoline or other flammable vapor or liquid near the air conditioner it is very dangerous.

4. The air conditioner has no ventilator for intaking fresh air from outdoors. You must open doors or windows frequently when you use gas or oil heating appliances in the same room, which consume a lot of oxygen from the air. Otherwise there is a risk of suffocation in an extreme case.



## CAUTION

1. Do not turn the air conditioner on and off from the power mains switch. Use the ON/OFF operation button.

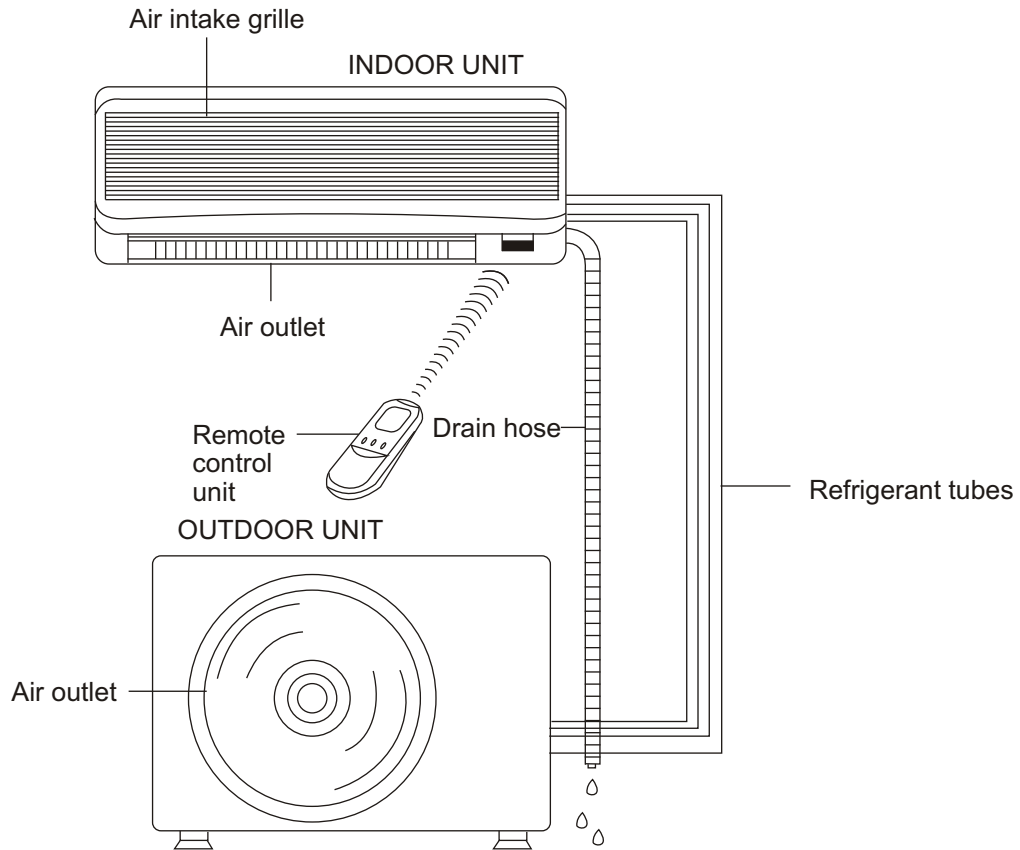
2. Do not stick anything into the air outlet of the outdoor unit. This is dangerous because the fan is rotating at high speed.

3. Do not let the children play with the air conditioner.

4. Do not cool or heat the room too much if babies or invalids are present.

# Composition of the Air Conditioner

## 1. Diagram of Structure



### NOTE

This air conditioner consists of an indoor unit and an outdoor unit. You can control the air conditioner with the remote control unit.

<b>Air Intake</b>	Air from the room is drawn into this section and passes through air filters which remove dust.
<b>Air Outlet</b>	Conditioned air is blown out of the air conditioner through the air outlet.
<b>Remote Control Unit</b>	The wireless remote control unit controls power ON/OFF, operation mode selection, temperature, fan speed, timer setting, and air sweeping.
<b>Refrigerant Tubes</b>	The indoor and outdoor units are connected by copper tubes through which refrigerant gas flows.
<b>Outdoor(Condensing)Unit</b>	The outdoor unit contains the compressor, fan motor, heat exchanger coil, and other electrical components.
<b>Drain Hose</b>	Moisture in the room condenses and drains off through this hose

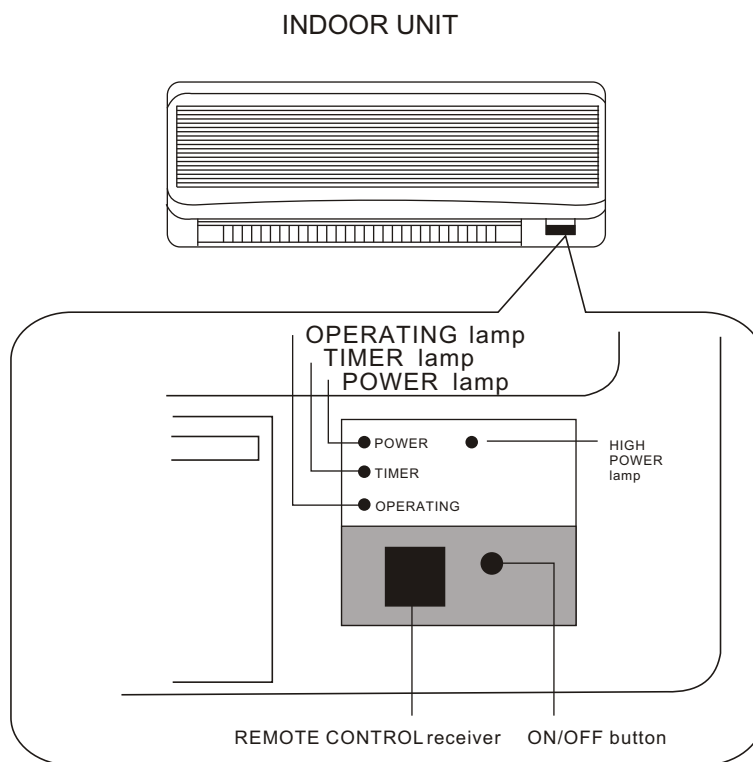
## 2.Introduction of the Indoor Control Unit



### IMPORTANT:

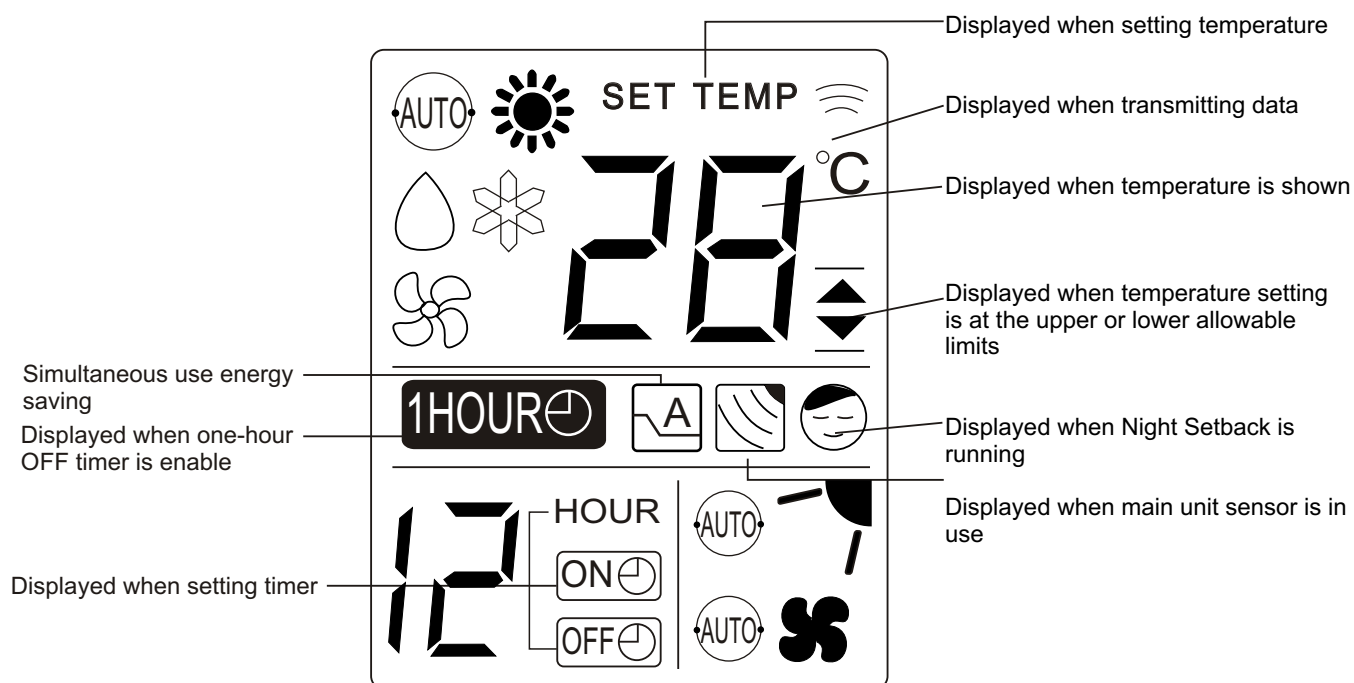
Avoid using radio equipment such as mobile phone near (within 1m) the indoor unit. Some radio equipment may cause malfunction of the unit.

If the trouble happens, disconnect power and restart the air conditioner after a few minutes.



<b>REMOTE CONTROL receiver</b>	This section picks up infrared signals from the remote control unit (transmitter)
<b>POWER lamp</b>	This lamp lights when the air conditioner is in the operation mode.(But the compressor may not run at this time.)
<b>TIMER lamp</b>	This lamp lights when the system is being controlled by the timer.
<b>OPERATING lamp</b>	This lamp lights when the outdoor unit is electrified.
<b>HIPOWER lamp</b>	This lamp lights when the air conditioner run efficiently.
<b>ON/OFF button</b>	This button is set for emergent state.Please use the remote control unit to operate the air conditioner in the common state. If you have lost the remote control unit or it has trouble, use this button to turn on/off you air conditioner.(See operation without the remote control unit.)

### 3.Introduction of Display



## Symbols

#### (1) Operation mode

AUTO .....	
COOL .....	
HEAT .....	
MILD DRY .....	
FAN .....	

#### (2) Fan speed

Automatic operation .....	
HIGH .....	
MEDIUM .....	
LOW .....	

#### (3) Set temperature

16-30 .....	
When set to 28 .....	
Current temperature indication .....	

#### (4) Timer

12-hour ON Timer .....	
12-hour OFF Timer .....	
1-hour OFF Timer .....	

#### (5) NIGHT SETBACK



#### (6) Confirmation of transmission



#### (7) Flap angle indication



#### (8) Sweep indication



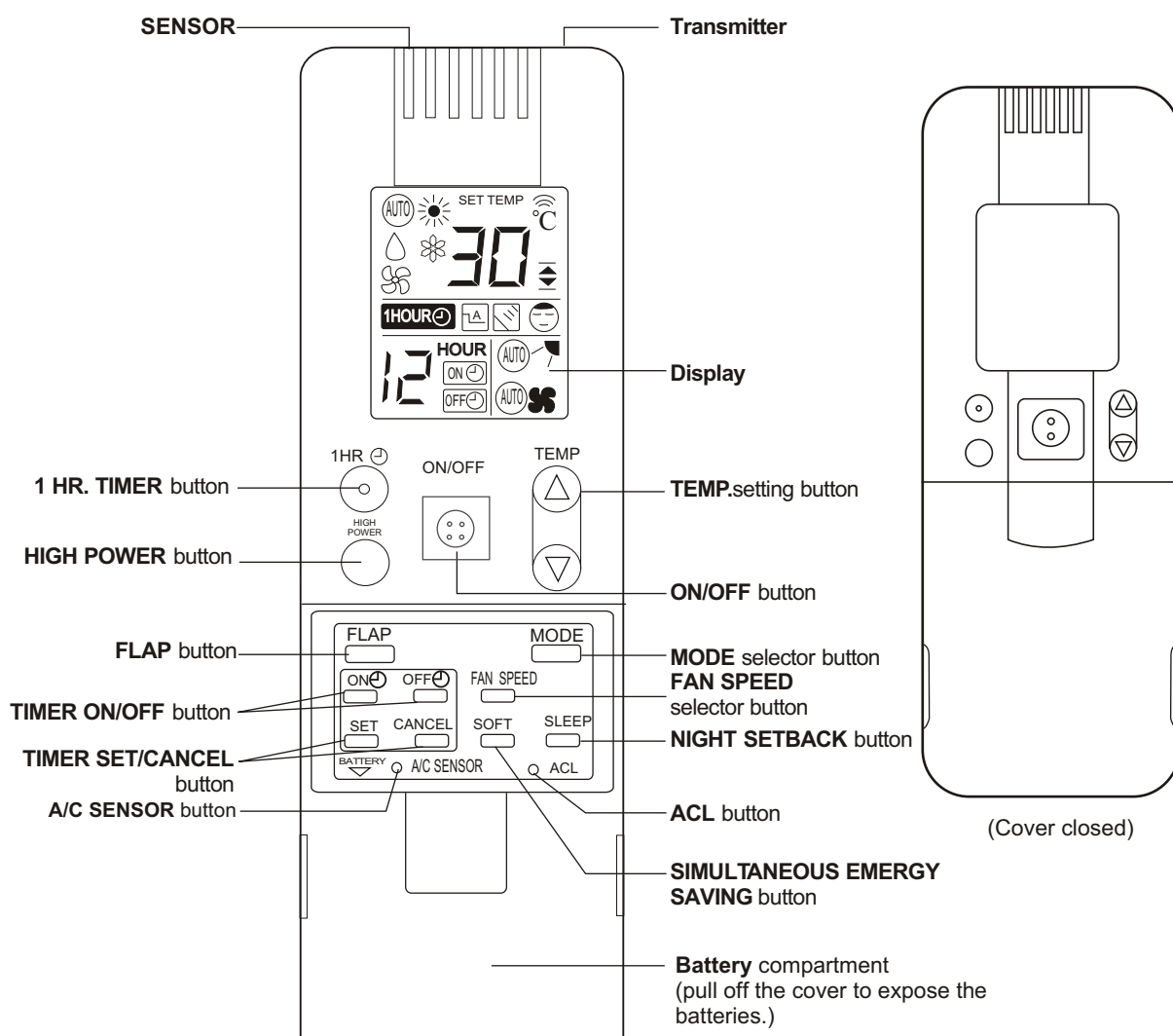
#### (9) Indoor unit sensor



#### (10) Simultaneous use energy saving







## 4.Introduction of the Remote control Unit




















### NOTE

The illustration above pictures the remote control unit after the cover has been lowered and removed.

<b>Transmitter</b>	When you press the buttons on the remote control unit, the  mark appears in the display to transmit the setting changes to the receiver in the air conditioner.
<b>SENSOR</b>	A temperature sensor inside the remote control unit senses the room temperature.
<b>Display</b>	Information on the operating conditions is displayed while the remote control unit is switched on. If the unit is turned off, only the mode that was set previously is still displayed.
<b>SLEEP button</b>	For details, see Night Setback Mode . When you press this button, in the HEAT, DRY or COOL mode, the  mark appears in the display, the remote control unit will automatically adjust the set temperature to save energy.
<b>TEMP. Setting buttons</b>	Press the  button to increase the set temperature. Press the  button to reduce the set temperature.
<b>ON/OFF operation button</b>	This button is for turning the air conditioner on and off.



## Remote Control Unit(continued)

<b>TIMER ON button</b>	 :The air conditioner starts at the set time.
<b>TIMER OFF button</b>	 :The air conditioner stops at the set time.
<b>TIMER SET/CANCEL button</b>	This button is used to set/cancel the time at which you wish the air conditioner to go on or off.
<b>MODE selector button</b> <b>(AUTO)</b>  <b>(HEAT)</b> <b>(DRY)</b> <b>(COOL)</b> <b>(FAN)</b>	Use this button to select AUTO, HEAT, DRY, COOLING or FAN mode.  :When this setting is selected, the air conditioner calculates the difference between the set thermostat and the room temperature and automatically switches to the "COOLING" or "HEATING" mode appropriately.  :The air conditioner makes the room warm  :The air conditioner reduces the humidity in the room.  :The air conditioner makes the room cool.  :The air conditioner makes the room's temperature suitable.
<b>FLAP button</b>	Press this button either to select to set the airflow direction to one of the six possible positions manually, or to select the sweep function, which moves the flap up and down automatically.  :The airflow direction can be set manually.(six positions)  :The flap moves up and down automatically.  :Press the FLAP button and set the airflow directions as desired. (refer to Adjust the Airflow Direction).
<b>FAN SPEED selector button</b>	 :The air conditioner automatically decides the fan speeds.  : High fan speed.  :Medium fan speed.  :Low fan speed.
<b>1 HR TIMER button</b> <b>(1-HOUR OFF TIMER)</b>	 :When you press this button, regardless of whether the unit is operating or stopping, the unit operates for one hour and then shuts down.
<b>ACL button</b>	Puts the remote control unit into pre-operation status. Always press this button after replacing the batteries.
<b>A/C SENSOR button</b>	When you press this button (use a small-tipped object such as a ballpoint pen), the  mark will appear at the display. And the room temperature is detected by the sensor which is built into the indoor unit and the air conditioner is controlled accordingly.
 <b>NOTE</b>	If the remote control unit is located near a heat resource, press the A/C sensor button to switch to the sensor in the indoor unit.
<b>SOFT button</b>	When you press this button, you can limit the maximum electric current, so that you can use it with other electric instrument when power is not enough.

### Automatic switching between cooling and heating

this unit automatically switches between cooling operation and heating operation according to the difference between the room temperature and the set temperature.

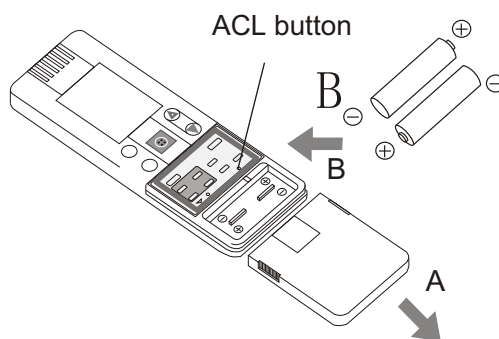
### NOTE

The remote control unit sends temperature signal to the air conditioner regularly at three minutes intervals. If the signal from the remote control unit stops for more than ten minutes due to the loss of the remote control unit or other trouble, the air conditioner will switch to the temperature sensor which is built into the indoor unit and control the room temperature. In these cases, the temperature around the remote control unit may differ from the temperature detected at the air conditioner's position.

# Operation Guide

## HOW TO INSTALL BATTERIES

1. Slice the cover in the direction indicated by the arrow and remove it.
2. Install two AAAalkaline batteries, make sure the batteries point in the direction marked in the battery compartment.
3. Use a thin object such as the tip of a pen to press the ACL button.



### NOTE

Replace the batteries when the remote control unit's display fails to light, or when the remote control unit cannot be used to change the air conditioner's setting.

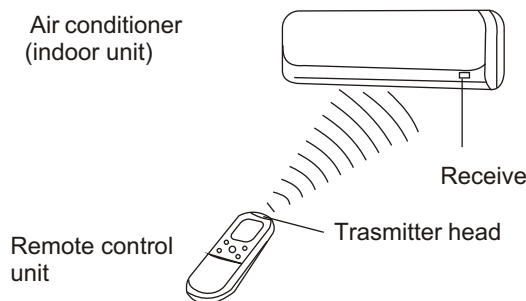
Use two fresh leak-proof type-AAA alkaline batteries.

In replacing batteries, follow the instructions as mentioned in the sub-section " How to install Batteries " .

If you do not use the remote control unit more than 1 month, take out the batteries.

## HOW TO USE THE REMOTE CONTROL UNIT

When using the remote control unit, always point the unit's Transmitter head directly at the air conditioner's receiver.



## REMOTE CONTROL UNIT INSTALLATION POSITION

### DO NOT

To ensure that the air conditioner operates correctly, DO NOT install the remote control unit in the following places:

In direct sunlight.

Behind a curtain or other places where it is covered;

More than 8 meters away from the air conditioner;

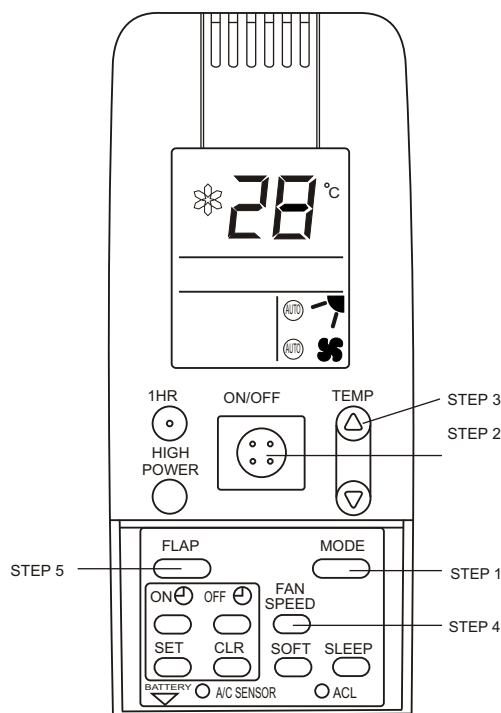
In the path of the air conditioner's airstream;

Where it may become extremely hot or cold;

Where it may be subject to strong electromagnetic interference;








Where there is an obstacle between the remote control unit and the air conditioner;

# Operation with the Remote control Unit(continued)



**NOTE** Check that the circuit breaker on the power panel is turned on and that the operation selector of the indoor unit is in the ON position.



If the automatic operation settings of the unit do not meet your needs, press the setting buttons as described below and change the setting as desired.



<b>STEP 1</b>	Press the MODE selector button and select the desired mode. For automatic operation →  For heating operation →  For dehumidifying operation →  For cooling operation →  For fan operation → 
<b>STEP 2</b>	To start the air conditioner, press the ON/OFF operation button.
<b>STEP 3</b>	Press the TEMP setting button to change the temperature setting to the desired temperature . Adjustable temperature range: 30 max~16 min.
 <b>STEP 4</b> <b>NOTE</b>	Set the FAN SPEED selector button to choose the fan speed you want. If the fan speed is set to  (Automatic), the fan speed switch automatically, according to the difference between the actual room temperature and the set temperature.
<b>STEP 5</b>	Press the FLAP button and set the airflow desired as desired.

To stop the air conditioner, press the ON/OFF operation button again.

## Adjusting the Fan Speed

### A. Automatic

Simply set the FANSPEED selector to the   position.

A microcomputer in the air conditioner will automatically control the fan speed when the   mode is selected. When the air conditioner starts operating, the difference between the room temperature (RT) and the set temperature (T) is detected by the microcomputer which then automatically switches the fan speed to the most suitable level.

#### Cooling mode:

When difference between room temperature and set temperature is	Fan speed
RT T+3	High
T+3 RT T+1	Medium
RT T+1	Low


#### Mild drying mode:

When difference between room temperature and set temperature is	Fan speed
RT T+5	High
T+5 RT T+3	Medium
T+2 Rt T+3	Low




#### Heating mode:

When difference between room temperature and set temperature is	Fan speed
RT T-3	High
T-3 RT T-1	Medium
T-1 Rt T	Low

#### NOTE

The above table assumes that the sensor on the remote control is being used. If the sensor in the indoor unit is being used (the  indicator is on), actual operation may differ slightly from the operation described in tables.

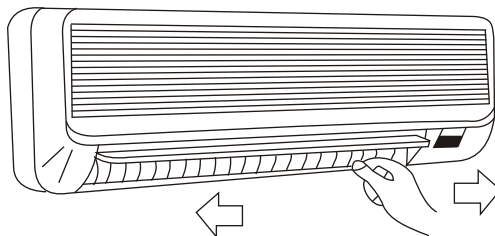
### B. Manual

If you want to adjust the fan speed manually during operation, just set the FAN SPEED selector as desired. [] (High), [] (Medium), or [] (Low)

## Adjusting the Airflow Direction

### 1. Horizontal

The horizontal airflow can be adjusted by moving the vertical vanes with your hands to the left or right.

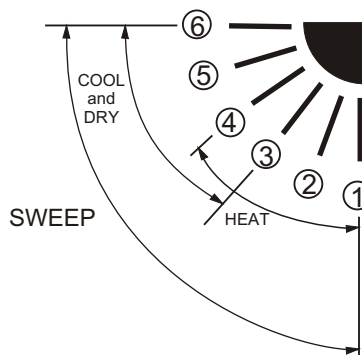
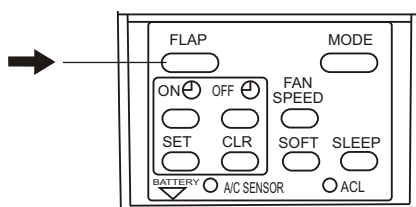


#### CAUTION

When the humidity is high, the vertical vanes should be in the front position during the cooling or dehumidifying operation. If the vertical vanes are positioned all of the way to the right or left, condensation may begin to form around the air vent and drip down.

### 2. Vertical

The vertical airflow can be adjusted by moving the flap with the remote control unit has been turned on. Then, use the FLAP button to set either the sweep function or one of the six airflow direction settings.



#### A.Sweep function



The flap starts moving up and down to deliver air over the sweep range.

#### B.Automatic Function



The flap moves up and down automatically from to during the cooling or drying operation, from to during the heating operation. Referring to the above illustration.



#### NOTE

The flap automatically closes when the unit is off.

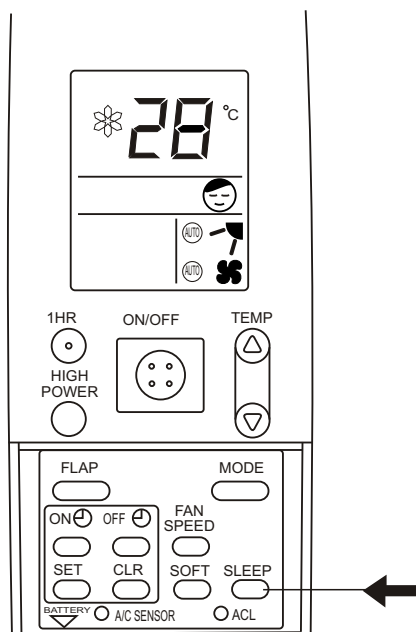


#### CAUTION

Use the FLAP button on the remote control to adjust the position of the flap. If you move the flap by hand, the flap position according to the remote control and the actual flap position may no longer match. If this happens, shut off the unit, wait for the flap to close, and then turn on the unit again; the flap position will now be normal again.

Do not have the flap pointed down during cooling operation. Condensation may begin to form around the air vent and drip down.

## Night Setback / Simultaneous Use Energy Saving



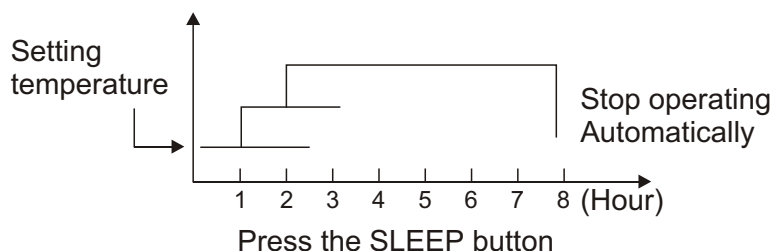
### Night Setback Mode

Night Setback Mode is used for saving energy. Press the SLEEP button in operation. The ☺ mark appears in the display. To release the night Setback function, press the SLEEP button again.

**NOTE** This function loses its automation or airflow mode.

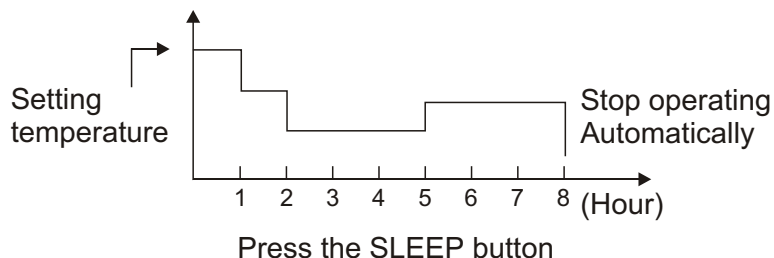
### B.In Cooling and DRY Mode:

When the night setback mode is selected, the air conditioner automatically raises the temperature setting 1 when 60 minutes have passed, and at last stops operating automatically after lasting about 6 hours at this temperature, regardless of the indoor temperature when night setback was selected. This enables you to save energy without sacrificing comfort. This function is convenient when gentle cooling is needed.



### B.In heating Mode:

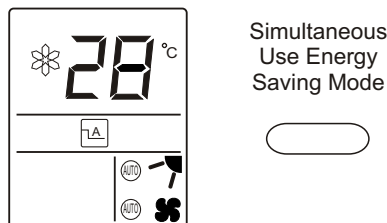
When the night setback mode is selected, the unit automatically drops the temperature setting 2 when 1 hour has passed when the selection was made, and another 2 after another 1 hour has passed, and then raises 1 after 3 hours, at last stops operating automatically at this temperature after another 3 hours.



### Simultaneous Use Energy Saving Mode

Limit the maximal current to work with other appliances in the peak hours of using electricity, press the SOFT button to select the simultaneous Use Energy Saving function, and press the button once again to cancel the function.

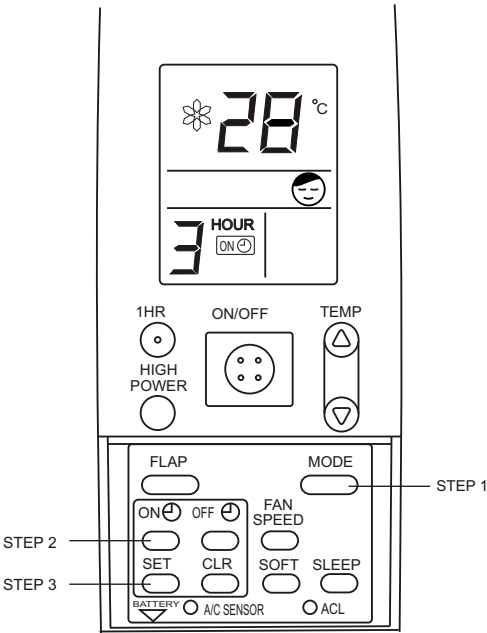
If the capacity of heat or cool is not enough to reach the set temperature in the summer day or winter night, you can cancel Simultaneous Use Energy Saving function to resume normal operation.



**NOTE** The Simultaneous Use Energy Saving function cannot be canceled by pressing the ON/OFF button.

# Using the 12-Hour ON and OFF Timer

## 1.TIMER ON mode (Example)



After the length of timer set for **TIMER ON** elapses, the unit begins operating. The display depicted at left indicates that the air conditioner will begin operating in three hours.

### Setting Procedures:

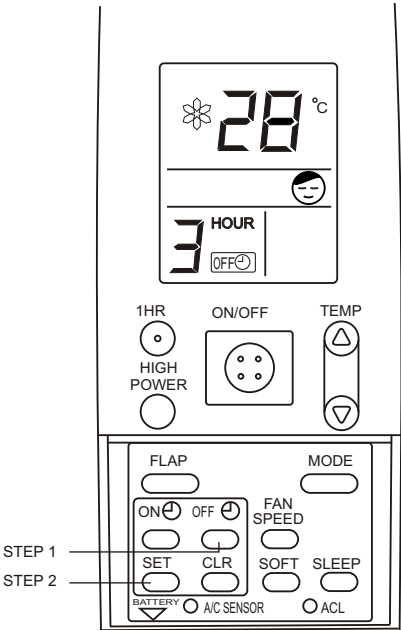
<b>STEP 1</b>	Press the <b>MODE</b> button and set the desired operation mode and press the <b>ON/OFF</b> operation button.
<b>STEP 2</b>	Press the timer <b>ON</b> button to set the time at which you want operation to begin. The time can be set for one to twelve hours, in one hour steps. → 1 → 2 → 3..... 12
<b>STEP 3</b>	Press the timer <b>SET</b> button (which advances the time displayed).

The display changes immediately to its status previous to timer setting, but the **ON** indication remains.

To check the status of the timer while it is counting down, press the timer **SET** button .

**Cancellation procedures:** press the **CANCEL** button once again.

## 1.TIMER OFF mode (Example)



After the length of timer set for **TIMER OFF** elapses, the unit stops operating. The display depicted at left indicates that the air conditioner will stop operating in five hours.

### Setting Procedures:

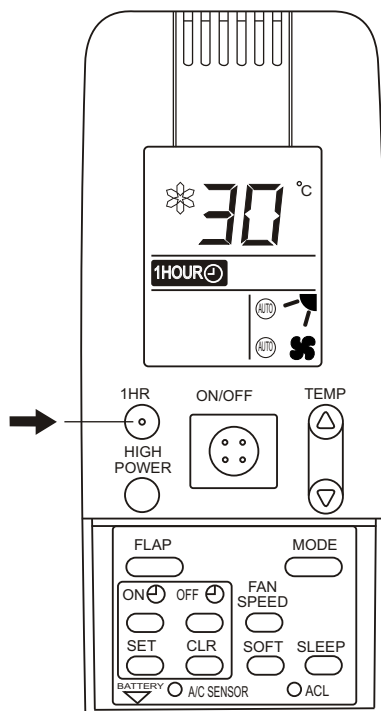
<b>STEP 1</b>	Press the <b>OFF</b> button and set the time at which you want operation to stop. The time can be set for one to twelve hours, in one hour steps. → 1 → 2 → 3..... 12
<b>STEP 2</b>	Press the timer <b>SET</b> button (which advances the time displayed).

The display changes immediately to its status previous to timer setting, but the **OFF** indication remains.

To check the status of the timer while it is counting down, press the timer **SET** button .

**Cancellation procedures:** press the **CANCEL** button once again.

## Using the 1-Hour OFF Timer



This function causes the system to operate for one hour and then stop, regardless of whether the unit is on or off when this button is pressed.

The " **1 HOUR** " indicator in the display indicates that this function is operating.

### Setting procedures:

Regardless of whether the unit is operating or stopped, press the 1 HR .TIMER button.

" **1 HOUR** " appears in the display.

### Cancellation procedures:

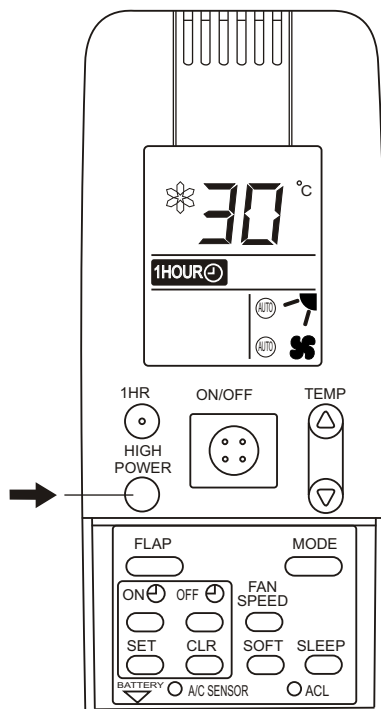
Pressing the ON/OFF operation button to turn off, wait for the unit to stop operating, and then press the ON/OFF operation button again. The 1-Hour Timer function is now cancelled and the unit operates normally.

### NOTE

If, while the 1-Hour Timer function is operating, the 1 HR.TIMER button is pressed once to cancel the function and then again, the unit will continue to operate for one hour from that point in time and then stops.

If the 1 HR.TIMER button is pressed while the TIMER OFF function operates, the OFF Timer is cancelled and the unit will stop operating one hour later.

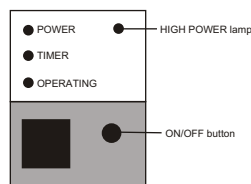
## HIGH POWER Operation



This operation makes higher or lower temperature airflow than usual, in winter or summer, which makes you feel comfortable as soon as you go home.

### Setting procedures:

press the High Efficiency button on the remote control unit gently, with a whisper, and the lamp on the display panel is lighted, so the high efficient operation comes to work. It may last the longest time of 15 minutes.



### Cancellation procedures:

Pressing the High POWER button again, with a second whisper, the lamp is out.



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## Special Remarks

### Heating ( ) Operation

#### Heating performance

Because this air conditioner heats a room by drawing on the heat of the outside air (Heat pump system), the heating efficiency will fall off when the outdoor temperature is very low. If sufficient heat cannot be obtained with this air conditioner, use another heating appliance in conjunction with it.

#### Defrosting

When the outdoor temperature is low, frost or ice may form in the heat exchanger coil, reducing heating performance. When this happens, a microcomputer defrosting system will operate. At the same time the fan on the indoor unit stops (or runs at very low speed in some cases). Heating operation restarts after several minutes. (This interval will vary slightly depending upon the outdoor temperature and the way in which frost forms).

#### POWER Lamp

For several minutes after the start of heating operation, the indoor fan will not start running until the indoor heat exchanger coil has warmed up sufficiently. This is because the COLD START PREVENTION SYSTEM is operating.

The POWER lamp also remains lit during defrosting or when the compressor has been turned off by the thermostat when the system is in the heating mode.

### Power failure during operation

In the event of power failure, the unit will stop. When the power is resumed, the unit will restart automatically after three minutes.

### Clicking Sound

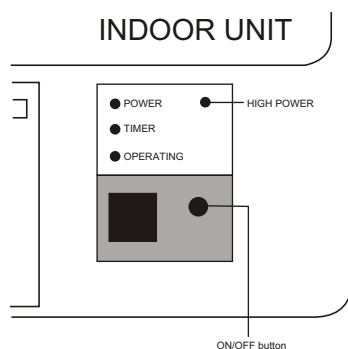
clicking Sound is heard from the air conditioner

In heating or cooling operation. Some plastic parts may expand or shrink due to a sudden temperature change. In this event, a clicking sound may occur. This is normal, and the sound will soon disappear.

### Remote Control Unit

The remote control unit sends the temperature signal to the air conditioner regularly at three-minute intervals. If the signal from the remote control unit stops for more than ten minutes due to the loss of the remote control unit or other trouble, the air conditioner will switch to the temperature sensor which is built into the indoor unit and control the room temperature. In three cases, the temperature around the remote control unit may differ from the temperature detected at the air conditioner's position.

## Operation without the Remote Control Unit



If you have lost the remote control unit or it has trouble, follow the steps below.

1. When the air conditioner is not running

If you want to turn on the air conditioner, switch the operation selector to the OFF position, and then to the ON position.

2. When the air conditioner is running

If you want to turn off the air conditioner, switch the operation selector to the OFF position.

### NOTE

Pressing buttons cannot last too long time, or the air conditioner may operate abnormally.

## Care and Cleaning



### WARNING

1. For safety, be sure to turn the air conditioner off and also to disconnect the power before cleaning.
2. Do not pour water on the indoor unit to clean it. This will damage the internal components and cause an electric shock hazard.

Clean the casing and grille of the indoor unit with a vacuum cleaner brush, or wipe them with a clean, soft cloth.

If these parts are stained, use a clean cloth moistened with a mild liquid detergent. When cleaning the grille, be careful not to force the vanes out of place.



### CAUTION

1. Never use solvents, or harsh chemicals when cleaning the indoor unit. Do not wipe the plastic casing using very hot water.
2. Some metal edges and the fins are sharp and may cause injury if handled improperly; be especially careful when you clean these parts.

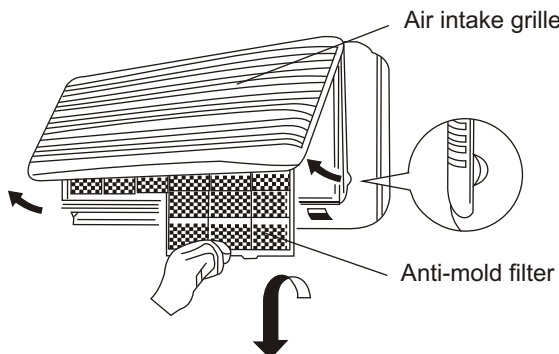
## Care and Cleaning (continued)

### Anti-Mold Filter

#### How to remove the anti-mold filter

The anti-mold filter behind the air intake grille should be checked and cleaned at least once every three weeks.

1. Grasp both ends of the air intake grille and pull it out and up.
2. Push the anti-mold filter up slightly, and then pull it down.

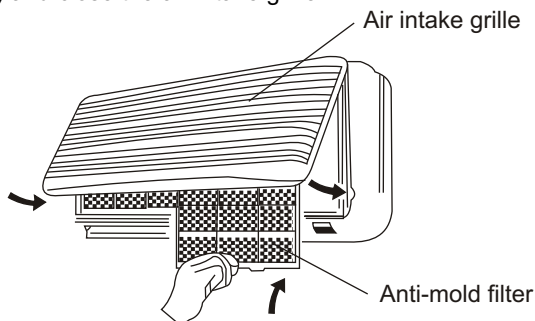


### Anti-Mold Filter Cleaning

#### How to replace the anti-mold filter

Use a vacuum cleaner to remove light dust. If there is sticky dust on the filter, wash the filter in lukewarm, soapy water, rinse it in clean water, and dry it.

1. With the (meaning FRONT) mark facing you, slide the anti-mold filter up into the unit and then lower the handle into the groove on the unit.
2. After installing the anti-mold filter, press the locations marked by the arrows (↓) and close the air intake grille.



### Air Clean Filter (not provided)



**WARNING**

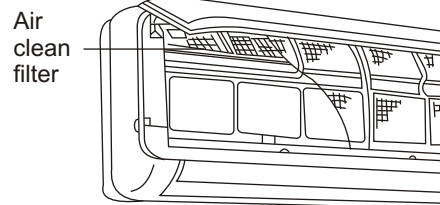
The air cleaning filter removes dust and dirt from the air, and reduces odors and smoke from tobacco.

**This air clean filter cannot remove harmful gases or vapors nor ventilate air in the room. You must open doors or windows frequently when you use gas or oil heating appliances. Otherwise there is a risk of suffocation in extreme cases.**

#### How to install the air clean filter

The air clean filter needs to be installed behind the anti-mold filter.

1. Remove the anti-mold filter.
2. Install the air clean filter in the position shown in the diagram, with the meaning FRONT symbol facing the front.
3. Reinstall the anti-mold filter.



# Tips for Energy Saving

## Do not

Block the air intake and outlet of the unit. If they are obstructed, the unit will not work well, and may be damaged.  
Let sunlight directly into the room. Use sunshades, blinds or curtains. If the walls and ceiling of the room are warmed by the sun, it will take longer time to cool the room.

## Do

Always try to keep the air filter clean. (Refer to Care and Cleaning .)A clogged filter will impair the performance of the unit.  
To prevent conditioned air from escaping, keep windows, doors and any other openings closed.

# Troubleshooting

If your air conditioner does not work properly, first check the following points before requesting service. If it still does not work properly, contact your dealer or service center.

Trouble	Possible Cause	Remedy
Air conditioner does not run at all.	1.Power failure. 2.Leakage breaker tripped. 3.Line voltage is too low. 4.Operation button is OFF. 5.Batteries in remote control unit have run down.	1.Restore power. 2.Contact service center. 3.Consult your electrician or dealer. 4.Press the button again. 5.Replace batteries.
OPERATING lamp flashes while air conditioner does not operate.	Trouble in wiring system.	Contact service center.
Compressor runs but soon stops.	Obstruction in front of condenser coil.	Remove obstruction.
Poor cooling (or heating) performance	1.Dirty or clogged air filter. 2.Heat source or many people in room. 3.Doors and/or windows are open. 4.Obstacle near air intake or air discharge port. 5.Thermostat is set too high for cooling(or too low for heating). 6.(Outdoor temperature is too low.) 7.(Defrosting system does not work.)	1.Clean air filter to improve airflow. 2.Eliminate heat source if possible. 3.Shut them to keep the heat (or cold) out. 4.Remove it to ensure good airflow. 5.Set the temperature lower.(or higher)  6.(Try to use a back-up heater.) 7.(Consult your dealer.)
Clicking sound is heard from the air conditioner.	In heating or cooling operation, some plastic parts may expand or shrink due to a sudden temperature change. In this event, a clicking sound may occur.	This is normal, and the sound will soon disappear.
OPERATING lamp lights but outdoor unit will not run.	1.The use of portable telephones near the air conditioner may cause disturbance to its normal operation. 2.Restart the air conditioner after turn off the power immediately.	1.Turn off the power then restart the air conditioner after 3 minute.  2.The unit will restart automatically after three minutes.

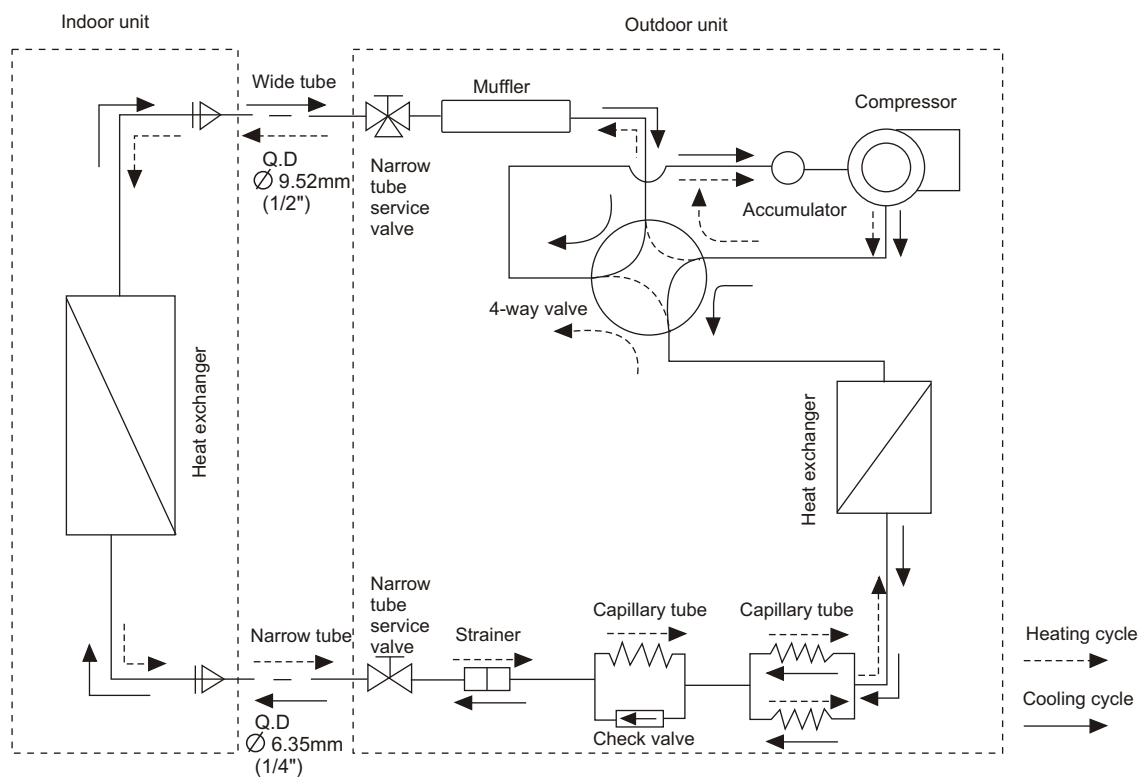
# Schematic Diagram

1. The air conditioner is operable within the temperature ranges from -7°C~43°C.

2. Main specifications of the product

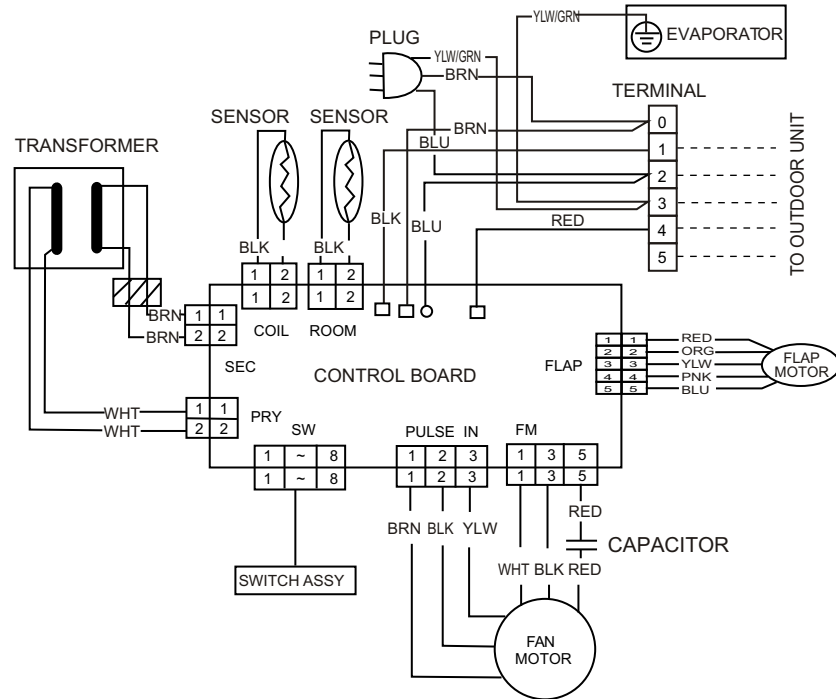
type	KFR-2601GW/BPE	KFR-2801GW/BPE
Rated voltage	AC 230V	AC 230V
Frequency	50Hz	50Hz
voltage range	AC 160-253V	AC 160-253V
power consumption of input (cooling/heating)	0.96kW/1.40kW	1.08kW/1.45kW
power (cooling/heating)	2.6kW/3.6kW	2.8kW/3.8kW
Air flow (high)	420m <sup>3</sup> /h	450m <sup>3</sup> /h
Refrigeration dose/consumption	R22/0.72kg	R22/0.73kg
Weight (indoor unit/outdoor unit)	7.5kg/35.0kg	7.5kg/35.0kg
Maximum remote control range/angle range	8m/80	8m/80
Maximum length of the connect tube	15m	15m

3. REFRIGERANT FLOW DIAGRAM



#### 4. ELECTRIC WIRING DIAGRAMS

##### INDOOR UNIT



##### OUTDOOR UNIT

